

IN THE CLAIMS:

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Please CANCEL without prejudice or disclaimer claims 1-10 in the underlying PCT application and ADD new claims 11-22 in accordance with the following:

11. (new) A method for transmitting a sequence of data in a radio communication system, comprising:

 checking a radio interface for an interference signal of an interference source, by at least one of a first transmitting station and a first receiving station, to detect an approach of the interference source relative to the first receiving station; and

 after said checking, generating a transmission signal at the first transmitting station for transmitting the sequence of data to the first receiving station via the radio interface during a length of time necessary to transmit the sequence of data without the interference source approach to the first receiving station interfering with the transmission signal.

12. (new) A method according to claim 11, further comprising one of determining and estimating an expected increase in intensity of the interference signal at the first receiving station using at least one of actual and maximum possible relative velocity of the interference source and the first receiving station to each other.

13. (new) A method according to claim 12, further comprising one of determining and estimating an expected decrease in intensity of the interference signal at the first receiving station as a function of at least one of the actual and maximum possible relative velocity of the first transmitting station and the first receiving station to each other.

14. (new) A method according to claim 13, further comprising locating, by the first receiving station, a usual interference source within a detection area based on a determinable velocity of the first receiving station and a transmitted velocity of the interference sources within the detection area of the first receiving station.

15. (new) A method according to claim 13, wherein at least one of a usually maximum possible and maximal sensible velocity is used for stations and interference sources for which no velocity information is available, at least one of within and outside a detection area of the first receiving station.

16. (new) A method according to claim 15, further comprising determining a maximum possible transmission duration for interference free transmission of the sequence of data, based on at least one of an expected change in intensity of the interference signal and an expected change in intensity of the transmission signal.

17. (new) A method according to claim 16, further comprising at least one of determining and estimating a threshold value for a minimum required difference between the intensity of the transmission signal and the intensity of the interference signal as a measurement for a non-interfering signal that does not interfere with the transmission signal.

18. (new) A method according to claim 17, further comprising determining a decoding area around the first receiving station within which the interference signal of the interference source causes unacceptable interference.

19. (new) A method according to claim 18, further comprising exchanging, between the first receiving station and the first transmitting station, parameters at least one of relating to a corresponding station, determined in the corresponding station and relating to transmission conditions.

20. (new) A method according to claim 19, wherein said exchanging exchanges at least one of the threshold value and the maximum possible transmission duration.

21. (new) A station for at least one of transmission and reception in a radio communication system with at least one of mobile stations and mobile interference sources, comprising:

a velocity determining device determining at least one of actual velocities and relative velocities of the at least one of mobile stations and mobile interference sources;

a carrier scanning device at least one of determining and identifying an interference free carrier for intended transmission of a sequence of data; and

at least one of

a threshold determining device determining a threshold value for a minimum difference between a desired receive signal and an interference signal; and

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a duration setting device pre-setting a maximum possible transmission duration for transmitting the sequence of data.

22. A station according to claim 21, wherein a transmitting station not involved in the intended transmission of the sequence of data is a mobile interference source.